

# Enhancing the Development Life Cycle To Produce Secure Software

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Karen Mercedes Goertzel. Over the past decades, efforts to enhance software development life cycle (SDLC) practices have been shown to improve software quality, reliability, and fault-tolerance. More recently, similar strategies to improve the security of software in organizations such as Microsoft, Oracle, and Motorola have resulted in software products with less vulnerabilities and greater dependability, trustworthiness, and resilience. In its mission to improve the security of software used in America's critical infrastructure and information systems, the Department of Homeland Security's (DHS) Software Assurance Program has sponsored the creation of the book *Enhancing the Development Life Cycle to Produce Secure Software*, a source of practical information intended to help developers, integrators, and testers identify and systematically apply security and assurance principles, methodologies, and techniques to current SDLC practices, and thereby increase the security of the software that results. Unlike the numerous other books on secure software development, *Enhancing the Development Life Cycle* does not espouse any specific methodology, process model, or development philosophy. Instead it explains the essentials of what makes software secure, and takes an unbiased look at the numerous security principles and secure development methodologies, practices, techniques, and tools that developers are finding effective for developing secure software – information that readers can leverage in defining their own SDLC security-enhancement strategies.

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1. <https://buildsecurityin.us-cert.gov/adm-bis/1185-BSI.html>